

IN THE SPECIFICATION

B¹

[0040] Referring to Fig. 2B, MDDs 51 include micromirrors 53 that are shaped like micromirrors 52 of MDDs 50. However, micromirrors 53 are each pivotable about a diagonal axis 55. As in projection system 10, projection system 12 includes projection lens 80 held by frame 82 which has at least a front surface that includes light absorbing surface 84. Projection lens 80 need not be held by a frame with a light absorbing surface if there is a preferable light absorbing surface in close proximity to projection lens 80.

B²

[0042] Unlike light sources 20 and 24, light source apparatus 26 is a multicolor light source that provides red, green and blue light, preferably in narrow wavelength bands. Light source apparatus 26 directs the light obliquely from the side and below dichroic cross-combiner assembly 72 a location lower than lens barrel 90 and toward its front surface of the dichroic cross-combiner assembly 72 that faces projection lens 80. Dichroic cross-combiner assembly 72 is essentially an elongated X-cube having four major rectangular surfaces. Dichroic cross-combiner assembly 72 includes dichroic coatings that enable the blue, green, and red light to enter the front surface, be split apart by color and directed to the corresponding MDDs 50B, 50G, and 50R, micromirrors 54 of which then reflect the blue, green, and red light back into dichroic cross-combiner assembly 72 for recombination of the blue, green, and red light to form a composite image directed into projection lens 80.